

Claims

1. A method for dissolving a gas or a gas mixture in a liquid in which the liquid is introduced into a chamber (6) via an inlet (2), in connection with which an eddy movement is created in the chamber for mixing the gas and liquid, and in which the gas is introduced into the liquid before the liquid is introduced into the chamber and/or the gas is introduced directly into the chamber, after which the liquid with the dissolved gas can be removed via an outlet (4),  
characterised in that  
the liquid is introduced into the chamber (6) tangentially creating an eddy rotating about a mainly horizontal axis in a mainly cylindrical chamber shaped in such a way that essential pressure loss in the chamber is avoided.
2. A method in accordance with claim 1,  
characterised in that  
the eddy movement is such that the mixture has a helical movement.
3. A method in accordance with claim 1,  
characterised in that  
the liquid is introduced via a mainly horizontal inlet (2).
4. A method in accordance with claim 1,  
characterised in that the liquid with dissolved gas is supplied to a tank via pipes (7, 8) and nozzles (10) submerged in the fluid in the tank, where the pressure is released.
5. A method in accordance with claim 1,  
characterised in that  
the gas is oxygen or carbon dioxide.
6. A method in accordance with claim 1,  
characterised in that  
the liquid is fresh water and/or salt water.

7. A method in accordance with claim 1,  
characterised in that  
the pressure of the liquid is 0.3 – 1 bar.

5 8. Equipment for dissolving a gas or a gas mixture in a liquid, comprising a chamber  
(6) with an inlet (2) for liquid and gas (3) and an outlet (4) for liquid with dissolved  
gas,  
characterised in that  
the chamber (6) is cylindrical around a mainly horizontal axis and where the inlet  
10 (2) is arranged tangentially in relation to the chamber (6).

9. Equipment in accordance with claim 8,  
characterised in that  
the inlet (2) is located mainly along a horizontal axis.

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10. Equipment in accordance with claim 8,  
characterised in that  
the outlet (4) is arranged tangentially in relation to the chamber.

20 11. Equipment in accordance with claim 8,  
characterised in that  
the outlet (4) extends vertically upwards.

12. Equipment in accordance with claim 8,  
25 characterised in that  
the inlet (2) and outlet (4) of the chamber is of such a dimension that they do not  
cause essential pressure loss.

13. Equipment in accordance with claim 8,  
30 characterised in that  
the outlet (4) of the chamber (6) is connected to a jet pipe (8) with nozzles (10)  
adapted to be submerged in liquid, for supply of liquid with dissolved gas to a  
tank.